

LOCTITE CORPORATION

09/11/96

ROCKY HILL, CONNECTICUT 06067
EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

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Duro(TM) Liquid Solder
80239

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Duro(TM) Liquid Solder
Item No.: 80239
Part No.: SO-9
Product Type: ADHESIVE/SEALANT

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
ACETONE	67-64-1	40-45
Synthetic resin	Proprietary	25-30
ISOBUTYL ACETATE	110-19-0	20-25
epoxy chelator	Proprietary	<5
PROPYLENE OXIDE*	75-56-9	<5
SILICA, AMORPHOUS (FUMED)	7631-86-9	<5
BIS (2-ETHYLHEXYL) PHTHALATE*	117-81-7	<2
Pigment	Proprietary	<2

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
ACETONE	750 ppm TWA 1780 mg/m3	750 ppm TWA 1800 mg/m3	None
ISOBUTYL ACETATE	150 ppm TWA 713mg/M3	150 ppm TWA 700mg/M3	None
PROPYLENE OXIDE	20 ppm TWA 48 mg/m3	20 ppm TWA 50 mg/m3	5 ppm 6 ppm STEL
SILICA, AMORPHOUS (FUMED)	10mg/m3 TWA	6mg/m3 TWA	None
BIS (2-ETHYLHEXYL) PHTHALATE	5 mg/m3 TWA	5 mg/m3 TWA	None

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
ACETONE	1000 ppm 2380 mg/m3	1000 ppm 2400 mg/m3
BIS (2-ETHYLHEXYL) PHTHALATE	10 mg/m3	10 mg/m3

3. HAZARDS IDENTIFICATION

Toxicity: EYE IRRITANT MODERATELY TOXIC BY INGESTION
Primary Routes of Entry: SKIN, INGESTION, INHALATION

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3. HAZARDS IDENTIFICATION

(continued)

Signs and symptoms
of Exposure:

Irritant to eyes, nose, throat. May be harmful if
swallowed. Inhalation in large amounts may cause
narcosis.

Existing Conditions

Aggravated by Exposure: None known

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
ACETONE	BLO CNS IRR	NO	NO	NO
Synthetic resin	No Data	NO	NO	NO
ISOBUTYL ACETATE	CNS IRR	NO	NO	NO
epoxy chelator	No Data	NO	NO	NO
PROPYLENE OXIDE	COR IRR MUT NER	YES	2A	NO
SILICA, AMORPHOUS (FUMED)	NUI	NO	N/A	NO
BIS (2-ETHYLHEXYL) PHTHALATE	DEV KID LIV REP	YES	2B	YES
Pigment	No Data	NO	NO	NO

Abbreviations

N/A Not Applicable	2A Probably carcinogenic to humans
2B Possibly carcinogenic to humans	BLO Blood
CNS Central nervous system	COR Corrosive
DEV Developmental	IRR Irritant
KID Kidney	LIV Liver
MUT Mutagen	NER Nervous System
NUI Nuisance dust	REP Reproductive

4. FIRST AID MEASURES

Ingestion: DO NOT INDUCE VOMITING. CALL PHYSICIAN
Inhalation: REMOVE TO FRESH AIR. CALL PHYSICIAN
Skin Contact: WASH THOROUGHLY WITH LARGE QUANTITIES OF WATER
Eye Contact: Flush with water for 15 minutes. Obtain medical
attention.

5. FIRE FIGHTING MEASURES

Flash Point: 0 deg. F
Recommended

Extinguishing Agents: Waterfog, Carbon Dioxide, Foam, Dry Chemical
Hazardous Products formed
by Fire or Thermal Decomp Oxides of carbon

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5. FIRE FIGHTING MEASURES

(continued)

Unusual Fire or
Explosion Hazards: Vapors may ignite explosively.

Explosive Limits:
(% by volume in air)Lower Unknown
(% by volume in air)Upper Unknown

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case
of spill or leak: Remove sources of ignition. Scrape up with absorb-
ent material and place inclosed container. Dried
material is harmless.

7. HANDLING AND STORAGE

Safe Storage: Keep away from fire, heat, sparks.
(Contact Loctite Customer Service 1-800-243-4874 for shelf Life information)
Handling: Keep away from eyes. Avoid prolonged breathing of
vapor and contact with skin. Close container after
use.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: WEAR SAFETY GLASSES OR GOGGLES
Skin: WEAR RUBBER OR PLASTIC GLOVES
Ventilation: SUFFICIENT TO MAINTAIN VAPOR CONCENTRATION BELOW
TLV

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Aluminum liquid
Odor: Penetrating
Boiling Point: Not available
pH: Does not apply
Solubility in Water: Insoluble
Specific Gravity 0.93

Volatile Organic Compound
(EPA Method 24) 60.5% (METHOD USED:ASTM D2369)
Vapor Pressure: Not available
Vapor Density: Not available
Evaporation Rate
(Ether = 1) Not available

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10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Oxidizing agents, strong alkalies, strong mineral acids.
Hazardous Decomposition
Products (non-thermal): OXIDES OF CARBON

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.
EPA Hazardous Waste Number D001 - Hazardous waste per 40CFR 261.21

14. TRANSPORT INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: CONSUMER COMMODITY
Hazard Class or Division: ORM-D
Identification Number: None
Marine Pollutant: None

IATA
Proper Shipping Name: ADHESIVES
Class or Division: FLAMMABLE, UN 1133 ,PG I

UN or ID Number: UN 1993

15. REGULATORY INFORMATION

CA Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer.
Di(2-Ethylhexyl)Phthalate (DEHP)
Propylene Oxide

16. OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard: 3
Fire Hazard: 3

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16. OTHER INFORMATION

(continued)

Reactivity Hazard: 0
Specific Hazard: Does not apply

Estimated HMIS(R) Code:
Health Hazard: 3
Flammability Hazard: 3
Reactivity Hazards: 0
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

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